NC/QC/PD/MW-13/2017-18/WD-WMM1 Date: 05-03-2018

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Formation of internal roads Levelling & Lowering of Mallasandra Waste disposal site in Sy No.33 in Ward No.13.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.10	95-100
26.50	---	-
22.40	74.70	60-80
11.20	58.25	40-60
4.75	32.10	25-40
2.36	25.95	15-30
0.600	11.45	8-22
0.075	3.95	0-5

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Date: 05-03-2018

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.61 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**26.86 %**	Not more than 35.0 %
3.	Water absorption, %	**0.38 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NC/QC/PD/MW-13/2017-18/WD-C1 Date: 09-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Formation of internal roads Levelling & Lowering of Mallasandra Waste disposal site in Sy No.33 in Ward No.13.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**159 min**	Shall not be less than 30 min
2	Final setting time	**286 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.74 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.02 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.57 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/PD/MW-13/2017-18/WD-PCC1 Date: 09-03-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .
{Project*: Formation of internal roads Levelling & Lowering of Mallasandra Waste disposal site in Sy No.33 in Ward No.13.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	98.35	85-100	95 – 100
20mm	60.80	0 -20	30- 70
10mm	26.10	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	96.75	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	82.95	60-95	75-100	85-100	
01.18	74.10	30-70	55-90	75-100	
600. mic	56.80	15-34	35-59	60-79	
300.mic	19.40	5-20	8-30	12-40	
150.mic	7.20	0-10	0-10	0-10	

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NC/QC/PD/MW-13/2017-18/WD-C2

Date: 14-03-2018

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Formation of internal roads Levelling & Lowering of Mallasandra Waste disposal site in Sy No.33 in Ward No.13.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

PHYSICAL TESTS ON CEMENT

Brand : ACC
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.47 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.31 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**29.17 N/Sq mm**	Shall not be less than 27 N/Sqmm

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